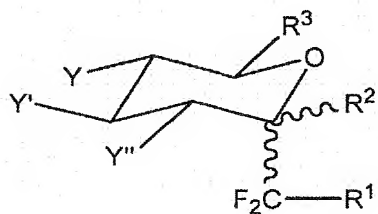


Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Previously Presented) A gem-difluorinated compound of formula:



wherein

R¹ is a group comprising a functionalized carbon chain bearing at least a function selected from the group consisting of an amine, amide, or acid function,

R² is a free alcohol function OGP wherein GP is a protective group selected from the group consisting of an alkyl, benzyl (Bn), trimethylsilyl (TMS), tert-butyl-dimethylsilyl (TBDMS), tert-butyldiphenylsilyl (TBDPS), acetate (Ac),

R³ is an H, CH₃, CH₂OH, CH₂-OGP group wherein GP is a protective group selected from the group consisting of an alkyl, benzyl (Bn), trimethylsilyl (TMS), tert-butyl-dimethylsilyl (TBDMS), tert-butyldiphenylsilyl (TBDPS), acetate (Ac) [...],

Y, Y', Y'' are independent groups

wherein Y, Y', Y'' = H, OR, N₃, NR'R'', SR''' [[...]]

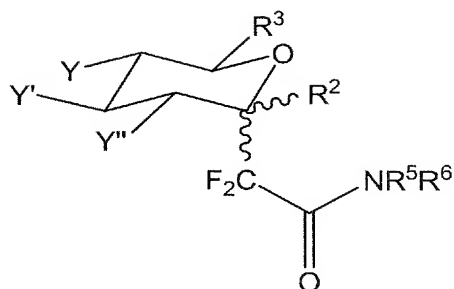
with R = H, Bn, Ac, TMS, TBDMS, TBDPS, [[...]]

R', R'' = H, alkyl, allyl, Bn, tosylate (Ts),

C(=O)-alkyl, C(=O)-Bn, [[...]]

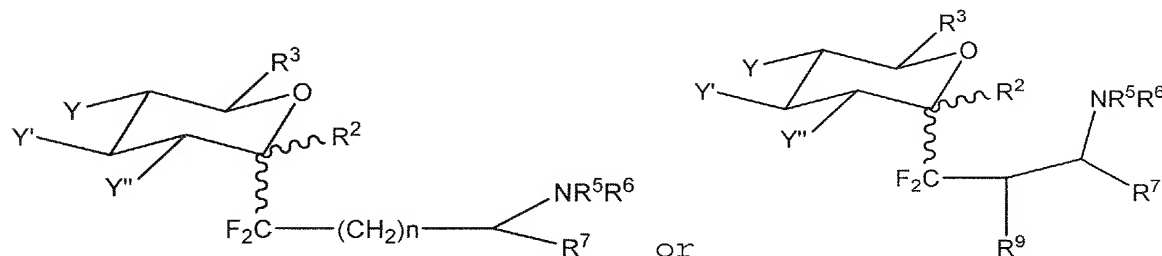
R''' = H, alkyl, Ac.

2. (Previously Presented) The compound as claimed
in claim 1 of the formula:



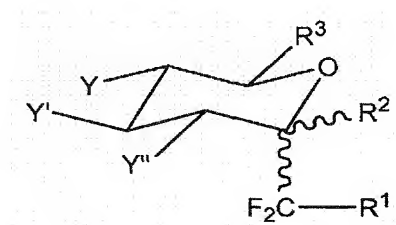
wherein R⁵ and R⁶ = H or a group either functionalized or not
including a functionalized carbon chain bearing ~~ia~~ an amine,
amino acid, aminoester function, a peptide chain or a
protein.

3. (Previously Presented) The compound as claimed
in claim 1 of the formula:



wherein R^5 , R^6 , R^7 and R^9 = H or a group either functionalized or not, including a functionalized carbon chain bearing an amine, amino acid, aminoester function, a peptide chain or a protein, n being a number of units (CH_2).

4. (Previously Presented) Amended) A method for preparing a gem-difluorinated compound of formula:



wherein

R^1 is a group comprising a functionalized carbon chain bearing at least a function selected from the group consisting of amine, or amide function,

R^2 is a free alcohol function OGP wherein GP is a protective group selected from the group consisting of an alkyl, benzyl (Bn), trimethylsilyl (TMS), tert-butyl-dimethylsilyl (TBDMS), tert-butyldiphenylsilyl (TBDPS), acetate (Ac),

R^3 is an H, CH_3 , CH_2OH , CH_2 -OGP group wherein GP is a protective group selected from the group consisting of an alkyl, benzyl (Bn), trimethylsilyl (TMS), tert-butyl-dimethylsilyl (TBDMS), tert-butyldiphenylsilyl (TBDPS), acetate (Ac) [...],

Y, Y', Y'' are independent groups

wherein Y, Y', Y'' = H, OR, N₃, NR'R'', SR''' [[...]]

with R = H, Bn, Ac, TMS, TBDMS, TBDPS, [[...]]

R', R'' = H, alkyl, allyl, Bn, tosylate (Ts),

C(=O)-alkyl, C(=O)-Bn, [[...]]

R''' = H, alkyl, Ac,

said method comprising a reaction in the presence of zinc at reflux of THF acting as solvent or in the presence of a lanthanide derivative, between a lactone of formula



and a halogenated derivative of general formula $\text{XCF}_2\text{CO}_2\text{R}^8$, wherein X is a halogen, and R^8 [[=]] is an alkyl so as to obtain an ester function which can be either reduced to alcohol then oxidized into an aldehyde or hemi-acetal or directly reduced into aldehyde.

5. (Previously Presented) The method according to claim 4, wherein said lanthanide derivative is samarium diiodide.

6. (Currently Amended) The method according to claim 4, wherein said sugar derivative is obtained in ~~one or more steps~~at least one step from a corresponding commercially available sugar.

Claims 7-19 (Cancelled).